HYGIENETECH

Hygiene Technologies International, Inc.

June 5, 2013

California State Board of Equalization
450 N Street
Sacramento, California 94279

Document No. 21304001.1

Attention: David Gau

Regarding: Limited Fungal Growth Exposure Assessment Surveys
             April 2013 Random Sampling

Dear Mr. Gau:

On April 8, 15, 29, and 30, 2013, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) conducted limited fungal growth exposure assessment surveys involving twenty two randomly selected areas located within the California State Board of Equalization (BOE) building. The findings of the surveys, along with the analytical data, conclusions, and recommendations when applicable, appear below.

On the survey dates, air samples were collected for total (viable and nonviable) fungi analyses using a Zefon brand Bio-Pump Plus™ equipped with Air-O-Cell™ cassettes. All such samples were subsequently analyzed for fungi (including yeasts, molds, rusts, smuts, and mushrooms) by trained and experienced microbiologists at a laboratory accredited by the American Industrial Hygiene Association (AIHA) and that successfully participates in the AIHA Environmental Microbiology Proficiency Analytical Testing (EMPAT) Program. The airborne fungi assessment analytical data with supporting and background information appear in the enclosed table.

As presented in Table 21304001-1, the airborne spore count data recorded showed fungal spore types outdoors such as *Alternaria*, ascospores, basidiospores, *Chaetomium*, *Cladosporium*, colorless spores typical of *Penicillium*/*Aspergillus* species*, Epicoccum, Nigrospora, Oidium*, rusts, smuts, *Stachybotrys*, and/or *Torula*,. In the indoor areas tested, the data showed that airborne fungal spores were either not detected at or above the laboratory detection limit indicated or were detected at low airborne concentrations. The fungal spore types found indoor included *Alternaria*, basidiospores, *Chaetomium*, *Cladosporium*, colorless spores typical of *Penicillium*/*Aspergillus* species*,* and/or smuts. The distribution of fungal spore types detected in the surveyed areas was consistent with those found outdoors, and the overall data within the tested areas were well below the overall outdoor data recorded. These data are considered unremarkable and are not believed to pose a health risk beyond that posed by the outdoor environment where exposures to airborne fungi are expected.

Be advised that the data provided in this report only represent limited fungal growth and exposure potentials that existed at the time these surveys were performed and at the precise sample locations

indicated. Note that fungal growth and exposure potentials may change due to changes in environmental conditions (such as those caused by water intrusion), use of mechanical systems, or other factors. Also be advised that additional fungal growth may exist at one or more locations in the structure that were not specifically assessed during the surveys.

If you have any comments or questions regarding the information contained in this correspondence, please feel free to contact our offices directly at (310) 370-8370.

Sincerely,

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

Kenny K. Hsi, CIH
Technical Director

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A

CLIENT: California State Board of Equalization
450 N Street
Sacramento, California 94279

**TABLE 21304001-1
AIRBORNE TOTAL FUNGI RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
APRIL 8, 15, 29, AND 30, 2013**

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	21304001-1 TM01OUT	21304001-1 TM02	21304001-1 TM03	21304001-1 TM04
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 15 feet east of building; approximately five feet above ground/Normal outdoor activities	1st Floor; southeastern stairwell area; about center; approximately five feet above floor/Normal office activities	5th Floor; Room 517; about center; approximately five feet above floor/Normal office activities	9th Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities
DATE	04/08/13	04/08/13	04/08/13	04/08/13
START/STOP	15:14:00/15:19:00	15:21:00/15:26:00	15:32:00/15:37:00	15:41:00/15:46:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	67			
Ascospores	270			
Basidiospores	430			110
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	1,600	53	53	
Curvularia				
Epicoccum	13			
Fusarium				
Nigrospora				
Oidium	13			
Other brown				
Other colorless				
Penicillium/Aspergillus types	270			
Pithomyces				
Rusts	13			
Smuts (Periconia, Myxomycetes)	400	13		
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	240	27	27	40
Background debris*	2+	1+	2+	2+
TOTAL**	3,100	67	53	110

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

**Note that all reported counts have been rounded to no more than two significant figures based on the sampling and analytical methods used, and therefore the total count may not equal the sum of the individual counts in a column.

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450 N STREET
SACRAMENTO, CALIFORNIA
APRIL 8, 15, 29, AND 30, 2013

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	21304001-1 TM05	21304001-1 TM06	21304001-1 TM07	21304001-1 TM08OUT
SAMPLING LOCATION/ACTIVITIES	14th Floor; Men's Restroom; about center; approximately five feet above floor/Normal office activities	17th Floor; Conference Room 1720; about five feet north of entry door; approximately five feet above floor/Normal office activities	22nd Floor; Break Room 2223; approximately five feet above floor/Normal office activities	Outdoors; about 15 feet south of building; approximately five feet above ground/Normal outdoor activities
DATE	04/08/13	04/08/13	04/08/13	04/15/13
START/STOP	15:50:00/15:55:00	15:58:00/16:03:00	16:06:00/16:11:00	13:50:00/13:55:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria			13	
Ascospores				110
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53			270
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)		13	13	53
Stachybotrys				
Stemphylium				
Torula				
Trichocladium				
Ulocladium				
Hyphal fragments	<13	13	<13	13
Background debris*	1+	2+	2+	1+
TOTAL**	53	13	27	430

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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SACRAMENTO, CALIFORNIA
APRIL 8, 15, 29, AND 30, 2013

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Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	21304001-1 TM09	21304001-1 TM10	21304001-1 TM11	21304001-1 TM12
SAMPLING LOCATION/ACTIVITIES	3rd Floor; Room 327; Column K22 area; about seven feet northwest of Column K22; approximately five feet above floor/Normal office activities	7th Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities	10th Floor; Conference Room 1007; entry area; approximately five feet above floor/Normal office activities	15th Floor; Column J22 area; about five feet north of Column J22; approximately five feet above floor/Normal office activities
DATE	04/15/13	04/15/13	04/15/13	04/15/13
START/STOP	14:02:00/14:07:00	14:11:00/14:16:00	14:18:00/14:23:00	14:29:00/14:34:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria			13	
Arthrinium				
Ascospores				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	110			
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				13
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	13	<13
Background debris*	1+	1+	1+	2+
TOTAL**	110	<13	13	13

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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SACRAMENTO, CALIFORNIA
APRIL 8, 15, 29, AND 30, 2013

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	21304001-1 TM13	21304001-1 TM14	21304001-1 TM15OUT	21304001-1 TM16
SAMPLING LOCATION/ACTIVITIES	18th Floor; Column K23 area; Cubicle 86 entry area; approximately five feet above floor/Normal office activities	20th Floor; Column N20 area; about seven feet west of Column N20; approximately five feet above floor/Normal office activities	Outdoors; about 15 feet east of the building; approximately five feet above ground/Normal outdoor activities	4th Floor; south corridor; about two feet south of Freight Elevator; approximately five feet above floor/Normal office activities
DATE	04/15/13	04/15/13	04/29/13	04/29/13
START/STOP	14:37:00/14:42:00	14:46:00/14:51:00	14:31:00/14:36:00	14:40:00/14:45:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	13		40	
Arthrinium				
Ascospores			53	
Basidiospores			320	
Bipolaris/Drechslera group				
Botrytis				
Chaetomium			93	
Cladosporium			1,700	110
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora			27	
Oidium				
Other brown				
Penicillium/Aspergillus types			270	53
Pithomyces				
Rusts			27	
Smuts (Periconia, Myxomycetes)	27		1,100	27
Stachybotrys				
Stemphylium				
Torula			53	
Ulocladium				
Zygomycetes				
Hyphal fragments	13	<13	67	<13
Background debris*	1+	1+	3+	1+
TOTAL**	40	<13	3,600	190

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Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	21304001-1 TM17	21304001-1 TM18	21304001-1 TM19	21304001-1 TM20
SAMPLING LOCATION/ACTIVITIES	8th Floor; Break Room 808; about center; approximately five feet above floor/Normal office activities	16th Floor; Column K20 area; Cubicle 89; about center; approximately five feet above floor/Normal office activities	21st Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities	24th Floor; Room 2412; about center; approximately five feet above floor/Sampling activities only
DATE	04/29/13	04/29/13	04/29/13	04/29/13
START/STOP	14:47:00/14:52:00	14:56:00/15:01:00	15:03:00/15:08:00	15:11:00/15:16:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium				
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				13
Stachybotrys				
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	<13	<13	<13
Background debris*	1+	1+	1+	2+
TOTAL**	<13	<13	<13	13

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APRIL 8, 15, 29, AND 30, 2013

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	21304001-1 TM21OUT	21304001-1 TM22	21304001-1 TM23	21304001-1 TM24
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 10 feet northeast of the building; approximately five feet above ground/Normal outdoor activities	2nd Floor; Break Room 214; about center; approximately five feet above floor/Normal office activities	6th Floor; Column N20 area; about two feet northwest of Column N20; approximately five feet above floor/Normal office activities	11th Floor; western corridor; about center; approximately five feet above floor/Normal office activities
DATE	04/30/13	04/30/13	04/30/13	04/30/13
START/STOP	09:20:00/09:25:00	09:29:00/09:34:00	09:37:00/09:42:00	09:45:00/09:50:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	27	13		13
Arthrinium				
Ascospores				
Basidiospores	270			53
Bipolaris/Drechslera group				
Botrytis				
Chaetomium	40	13		
Cladosporium	480			
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora	27			
Oidium				
Other brown				
Penicillium/Aspergillus types	53			
Pithomyces				
Rusts	13			
Smuts (Periconia, Myxomycetes)	2,900	27	67	
Stachybotrys	13			
Stemphylium				
Torula	120			
Ulocladium				
Hyphal fragments	280	<13	13	27
Background debris*	3+	2+	2+	2+
TOTAL**	3,900	53	67	67

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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SACRAMENTO, CALIFORNIA
APRIL 8, 15, 29, AND 30, 2013

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	21304001-1 TM25	21304001-1 TM26		
SAMPLING LOCATION/ACTIVITIES	19th Floor; Break Room 1905; about center; approximately five feet above floor/Normal office activities	23rd Floor; Room 2322; Reception area; about center; approximately five feet above floor/Normal office activities	This column intentionally left blank.	This column intentionally left blank.
DATE	04/30/13	04/30/13		
START/STOP	09:53:00/09:58:00	10:02:00/10:07:00		
SAMPLE TIME	5 minutes	5 minutes		
Alternaria				
Arthrinium				
Ascospores				
Basidiospores		53		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium	13			
Cladosporium				
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	27	40		
Stachybotrys				
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	1+	2+		
Background debris*	<13	27		
TOTAL**	40	93		

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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Report for:

Mr. Kenny Hsi, Mr. Larry Sandhu
Hygiene Technologies International, Inc.
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21304001-1
                EML ID: 1048481

Approved by:

Lab Manager
Malcolm Moody

REVISED REPORT

Dates of Analysis:
Spore trap analysis: 04-10-2013

Service SOPs: Spore trap analysis (1038 (previously I100000 and I100007))
AIHA-LAP, LLC accredited service, Lab ID #179768

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Client: Hygiene Technologies International, Inc.   Date of Sampling: 04-09-2013
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu   Date of Receipt: 04-09-2013
Re: 21304001-1   Date of Report: 04-10-2013

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21304001-1TM01 OUT		21304001-1TMO2		21304001-1TM03		21304001-1TM04	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	4712686-1		4712687-1		4712688-2		4712689-1	
Analysis Date:	04/10/2013		04/10/2013		04/10/2013		04/10/2013	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	5	67						
Ascospores	5	270						
Basidiospores	8	430					2	110
Chaetomium								
Cladosporium	30	1,600	1	53	1	53		
Curvularia								
Epicoccum	1	13						
Fusarium								
Myrothecium								
Nigrospora								
Oidium	1	13						
Other colorless								
Penicillium/Aspergillus types†	5	270						
Pithomyces								
Rusts	1	13						
Smuts, Periconia, Myxomycetes	30	400	1	13				
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		1+		2+		2+	
Hyphal fragments/m3	240		27		27		40	
Pollen/m3	210		< 13		< 13		13	
Skin cells (1-4+)	< 1+		2+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		3,100		67		53		110

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium, Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc. Date of Sampling: 04-09-2013
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu Date of Receipt: 04-09-2013
Re: 21304001-1 Date of Report: 04-10-2013

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21304001-1TM05		21304001-1TM06		21304001-1TM07	
Comments (see below)	None		None		None	
Lab ID-Version‡:	4712690-1		4712691-1		4712692-1	
Analysis Date:	04/10/2013		04/10/2013		04/10/2013	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria					1	13
Ascospores						
Basidiospores						
Chaetomium						
Cladosporium	1	53				
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Oidium						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes			1	13	1	13
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	1+		2+		2+	
Hyphal fragments/m3	< 13		13		< 13	
Pollen/m3	< 13		27		27	
Skin cells (1-4+)	< 1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		53		13		27

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium, Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

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For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

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C/O: Mr. Kenny Hsi, Mr. Larry Sandhu Date of Receipt: 04-09-2013
Re: 21304001-1 Date of Report: 04-10-2013

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 21304001-1TM01 OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: April in California (n‡=16784)†						Typical Outdoor Data for: The entire year in California (n‡=188141)†					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	67	13	13	27	60	93	55	13	13	27	67	110	54
Bipolaris/Drechslera group	-	7	13	13	27	40	9	7	13	13	27	40	12
Chaetomium	-	8	13	13	27	40	18	8	13	13	27	47	19
Cladosporium	1,600	110	160	430	1,100	1,900	96	110	210	630	1,700	2,800	97
Curvularia	-	7	8	13	13	27	2	7	13	13	27	53	6
Epicoccum	13	7	13	13	27	53	15	8	13	13	33	53	19
Nigrospora	-	7	10	13	13	27	4	7	13	13	27	53	8
Penicillium/Aspergillus types	270	53	53	160	430	690	79	53	100	210	590	1,000	85
Stachybotrys	-	7	13	13	33	67	5	7	13	13	33	67	4
Torula	-	11	13	13	40	67	14	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	270	27	53	110	370	690	75	25	53	110	360	690	71
Basidiospores	430	53	80	270	960	2,000	93	53	80	270	1,000	2,400	93
Oidium	13	13	13	27	53	89	31	13	13	13	40	75	19
Rusts	13	13	13	25	53	93	35	13	13	13	53	80	27
Smuts, Periconia, Myxomycetes	400	13	13	40	110	200	67	13	13	40	110	200	68
§ TOTAL SPORES/m3	3,100												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

Client: Hygiene Technologies International, Inc.   Date of Sampling: 04-09-2013
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu   Date of Receipt: 04-09-2013
Re: 21304001-1   Date of Report: 04-10-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21304001-1TM01 OUT:

Species detected	Outdoor sample spores/m3		Typical outdoor ranges (North America)			Freq. %
Alternaria		67	7 -	33	- 570	46
Ascospores		270	13 -	190	- 5,400	76
Basidiospores		430	13 -	430	- 22,000	92
Cladosporium		1,600	27 -	480	- 10,000	91
Epicoccum		13	7 -	20	- 330	25
Oidium		13	7 -	13	- 230	12
Penicillium/Aspergillus types		270	13 -	160	- 2,700	69
Rusts		13	7 -	20	- 350	20
Smuts, Periconia, Myxomycetes		400	7 -	50	- 970	64
Total		**3,100**				

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 21304001-1TMO2

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 5 Result: 0.8571 Critical value: 11.0705 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: 0.7208 Critical value: 0.5833 Outside Similar: Yes	Score: 101 Result: Low

Species Detected	Spores/m3	
Cladosporium		53
Smuts, Periconia, Myxomycetes		13
Total		**67**

Client: Hygiene Technologies International, Inc.   Date of Sampling: 04-09-2013
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu   Date of Receipt: 04-09-2013
Re: 21304001-1   Date of Report: 04-10-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21304001-1TM03

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 5 Result: 0.8571 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.6708 Critical value: 0.5833 Outside Similar: Yes	Score: 102 Result: Low

Species Detected	Spores/m3			
	<100	1K	10K	>100K
Cladosporium				53
Total				53

Location: 21304001-1TM04

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 3%	dF: 5 Result: 0.8571 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.5958 Critical value: 0.5833 Outside Similar: Yes	Score: 110 Result: Low

Species Detected	Spores/m3			
	<100	1K	10K	>100K
Basidiospores				110
Total				110

Location: 21304001-1TM05

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 5 Result: 0.8571 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.6708 Critical value: 0.5833 Outside Similar: Yes	Score: 102 Result: Low

Species Detected	Spores/m3			
	<100	1K	10K	>100K
Cladosporium				53
Total				53

Client: Hygiene Technologies International, Inc.

C/O: Mr. Kenny Hsi, Mr. Larry Sandhu

Re: 21304001-1

Date of Sampling: 04-09-2013

Date of Receipt: 04-09-2013

Date of Report: 04-10-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21304001-1TM06

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 5 Result: 0.8571 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.5208 Critical value: 0.5833 Outside Similar: No	Score: 102 Result: Low

Species Detected	Spores/m3			
	<100	1K	10K	>100K
Smuts, Periconia, Myxomycetes				13
Total				13

Location: 21304001-1TM07

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 5 Result: 0.8571 Critical value: 11.0705 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: 0.3333 Critical value: 0.5833 Outside Similar: No	Score: 107 Result: Low

Species Detected	Spores/m3			
	<100	1K	10K	>100K
Alternaria				13
Smuts, Periconia, Myxomycetes				13
Total				27

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

Client: Hygiene Technologies International, Inc. Date of Sampling: 04-09-2013
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu Date of Receipt: 04-09-2013
Re: 21304001-1 Date of Report: 04-10-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

Client: Hygiene Technologies International, Inc.   Date of Sampling: 04-09-2013
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu   Date of Receipt: 04-09-2013
Re: 21304001-1   Date of Report: 04-10-2013

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21304001-1TM01 OUT

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		5	67
Bipolaris/Drechslera group		ND	< 13
Chaetomium		ND	< 13
Cladosporium		30	1,600
Curvularia		ND	< 13
Epicoccum		1	13
Nigrospora		ND	< 13
Penicillium/Aspergillus types†		5	270
Stachybotrys		ND	< 13
Torula		ND	< 13
Seldom found growing indoors**			
Ascospores		5	270
Basidiospores		8	430
Oidium		1	13
Rusts		1	13
Smuts, Periconia, Myxomycetes		30	400
Total			**3,067**

Location: 21304001-1TMO2

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300 Score	
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		101
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		1	13		101
Total			**67**	**Final MoldSCORE**	**101**

Client: Hygiene Technologies International, Inc. Date of Sampling: 04-09-2013
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu Date of Receipt: 04-09-2013
Re: 21304001-1 Date of Report: 04-10-2013

MoldSCORE™: Spore Trap Report

Location: 21304001-1TM03

Fungi Identified	Indoor sample spores/m3 <100 / 1K / 10K / >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 / 200 / 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		102
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**53**	**Final MoldSCORE**	**102**

Location: 21304001-1TM04

Fungi Identified	Indoor sample spores/m3 <100 / 1K / 10K / >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 / 200 / 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		2	110		110
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**107**	**Final MoldSCORE**	**110**

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21304001-1

Date of Sampling: 04-09-2013
Date of Receipt: 04-09-2013
Date of Report: 04-10-2013

MoldSCORE™: Spore Trap Report

Location: 21304001-1TM05

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/ m3	MoldSCORE‡			Score
	<100	1K	10K	>100K			100	200	300	
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				102
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
Total						**53**	**Final MoldSCORE**			**102**

Location: 21304001-1TM06

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/ m3	MoldSCORE‡			Score
	<100	1K	10K	>100K			100	200	300	
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					1	13				102
Total						**13**	**Final MoldSCORE**			**102**

Client: Hygiene Technologies International, Inc.　　Date of Sampling: 04-09-2013
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu　　Date of Receipt: 04-09-2013
Re: 21304001-1　　Date of Report: 04-10-2013

MoldSCORE™: Spore Trap Report

Location:　21304001-1TM07

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/ m3	MoldSCORE‡			Score
	<100	1K	10K	>100K			100	200	300	
Generally able to grow indoors*										
Alternaria					1	13				105
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					1	13				102
Total						**27**	**Final MoldSCORE**			**107**

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

![EMLab P&K - A TestAmerica Company]

Report for:

Mr. Kenny Hsi, Mr. Larry Sandhu
Hygiene Technologies International, Inc.
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21304001-1
EML ID: 1051364

Approved by:

Lab Manager
Malcolm Moody

Dates of Analysis:
Spore trap analysis: 04-17-2013

Service SOPs: Spore trap analysis (1038 (previously I100000 and I100007))
AIHA-LAP, LLC accredited service, Lab ID #179768

Client: Hygiene Technologies International, Inc.   Date of Sampling: 04-15-2013
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu   Date of Receipt: 04-16-2013
Re: 21304001-1   Date of Report: 04-17-2013

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21304001-1TM08 OUT		21304001-1TM09		21304001-1TM10		21304001-1TM11	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	4727072-1		4727073-1		4727074-1		4727075-1	
Analysis Date:	04/17/2013		04/17/2013		04/17/2013		04/17/2013	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria							1	13
Ascospores	2	110						
Basidiospores								
Botrytis								
Chaetomium								
Cladosporium	5	270	2	110				
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes	4	53						
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	1+		1+		1+		1+	
Hyphal fragments/m3	13		< 13		< 13		13	
Pollen/m3	13		< 13		40		< 13	
Skin cells (1-4+)	< 1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		430		110		< 13		13

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium, Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21304001-1

Date of Sampling: 04-15-2013
Date of Receipt: 04-16-2013
Date of Report: 04-17-2013

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21304001-1TM12		21304001-1TM13		21304001-1TM14	
Comments (see below)	None		None		None	
Lab ID-Version‡:	4727076-1		4727077-1		4727078-1	
Analysis Date:	04/17/2013		04/17/2013		04/17/2013	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria			1	13		
Ascospores						
Basidiospores						
Bipolaris/Drechslera group						
Botrytis						
Chaetomium						
Cladosporium						
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes	1	13	2	27		
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		1+		1+	
Hyphal fragments/m3	< 13		13		< 13	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		13		40		< 13

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium, Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21304001-1

Date of Sampling: 04-15-2013
Date of Receipt: 04-16-2013
Date of Report: 04-17-2013

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 21304001-1TM08 OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: April in California (n‡=16784)†						Typical Outdoor Data for: The entire year in California (n‡=188141)†					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	13	13	27	60	93	55	13	13	27	67	110	54
Bipolaris/Drechslera group	-	7	13	13	27	40	9	7	13	13	27	40	12
Chaetomium	-	8	13	13	27	40	18	8	13	13	27	47	19
Cladosporium	270	110	160	430	1,100	1,900	96	110	210	630	1,700	2,800	97
Curvularia	-	7	8	13	13	27	2	7	13	13	27	53	6
Nigrospora	-	7	10	13	13	27	4	7	13	13	27	53	8
Penicillium/Aspergillus types	-	53	53	160	430	690	79	53	100	210	590	1,000	85
Stachybotrys	-	7	13	13	33	67	5	7	13	13	33	67	4
Torula	-	11	13	13	40	67	14	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	110	27	53	110	370	690	75	25	53	110	360	690	71
Basidiospores	-	53	80	270	960	2,000	93	53	80	270	1,000	2,400	93
Rusts	-	13	13	25	53	93	35	13	13	13	53	80	27
Smuts, Periconia, Myxomycetes	53	13	13	40	110	200	67	13	13	40	110	200	68
§ TOTAL SPORES/m3	430												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21304001-1

Date of Sampling: 04-15-2013
Date of Receipt: 04-16-2013
Date of Report: 04-17-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21304001-1TM08 OUT:

Species detected	Outdoor sample spores/m3		Typical outdoor ranges (North America)				Freq. %
	<100 1K 10K >100K						
Ascospores		110	13 -	200	- 5,500		76
Basidiospores		< 13	13 -	430	- 23,000		92
Cladosporium		270	27 -	480	- 10,000		91
Penicillium/Aspergillus types		< 13	13 -	170	- 2,700		69
Smuts, Periconia, Myxomycetes		53	7 -	50	- 970		64
Total		430					

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 21304001-1TM09

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 25%	dF: 5 Result: 2.7619 Critical value: 11.0705 Inside Similar: Yes	Result: 0.5000	dF: 3 Result: 0.8750 Critical value: N/A Outside Similar: N/A	Score: 106 Result: Low

Species Detected	Spores/m3	
	<100 1K 10K >100K	
Cladosporium		110
Total		110

Location: 21304001-1TM10

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 5 Result: 2.7619 Critical value: 11.0705 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3	
	<100 1K 10K >100K	
None Detected		< 13

Client: Hygiene Technologies International, Inc.   Date of Sampling: 04-15-2013
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu   Date of Receipt: 04-16-2013
Re: 21304001-1   Date of Report: 04-17-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21304001-1TM11

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 3%	dF: 5 Result: 2.7619 Critical value: 11.0705 Inside Similar: Yes	Result: 0.0000	dF: 4 Result: -0.4000 Critical value: N/A Outside Similar: N/A	Score: 105 Result: Low

Species Detected	Spores/m3			
	<100	1K	10K	>100K
Alternaria				13
Total				13

Location: 21304001-1TM12

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 3%	dF: 5 Result: 2.7619 Critical value: 11.0705 Inside Similar: Yes	Result: 0.5000	dF: 3 Result: -0.6250 Critical value: N/A Outside Similar: N/A	Score: 103 Result: Low

Species Detected	Spores/m3			
	<100	1K	10K	>100K
Smuts, Periconia, Myxomycetes				13
Total				13

Location: 21304001-1TM13

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 9%	dF: 5 Result: 2.7619 Critical value: 11.0705 Inside Similar: Yes	Result: 0.4000	dF: 4 Result: -0.6500 Critical value: N/A Outside Similar: N/A	Score: 110 Result: Low

Species Detected	Spores/m3			
	<100	1K	10K	>100K
Alternaria				13
Smuts, Periconia, Myxomycetes				27
Total				40

Client: Hygiene Technologies International, Inc.   Date of Sampling: 04-15-2013
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu   Date of Receipt: 04-16-2013
Re: 21304001-1   Date of Report: 04-17-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report
Location: 21304001-1TM14

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 5 Result: 2.7619 Critical value: 11.0705 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3			
	<100	1K	10K	>100K
None Detected				< 13

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

Client: Hygiene Technologies International, Inc.   Date of Sampling: 04-15-2013
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu   Date of Receipt: 04-16-2013
Re: 21304001-1   Date of Report: 04-17-2013

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21304001-1TM08 OUT

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		ND	< 13
Bipolaris/Drechslera group		ND	< 13
Chaetomium		ND	< 13
Cladosporium		5	270
Curvularia		ND	< 13
Nigrospora		ND	< 13
Penicillium/Aspergillus types†		ND	< 13
Stachybotrys		ND	< 13
Torula		ND	< 13
Seldom found growing indoors**			
Ascospores		2	110
Basidiospores		ND	< 13
Rusts		ND	< 13
Smuts, Periconia, Myxomycetes		4	53
Total			**427**

Location: 21304001-1TM09

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		2	110		106
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**107**	**Final MoldSCORE**	**106**

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21304001-1

Date of Sampling: 04-15-2013
Date of Receipt: 04-16-2013
Date of Report: 04-17-2013

MoldSCORE™: Spore Trap Report

Location: 21304001-1TM10

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/ m3	MoldSCORE‡			Score
	<100	1K	10K	>100K			100	200	300	
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
Total						**N/A**	**Final MoldSCORE**			**100**

Location: 21304001-1TM11

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/ m3	MoldSCORE‡			Score
	<100	1K	10K	>100K			100	200	300	
Generally able to grow indoors*										
Alternaria					1	13				105
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
Total						**13**	**Final MoldSCORE**			**105**

Client: Hygiene Technologies International, Inc.   Date of Sampling: 04-15-2013
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu   Date of Receipt: 04-16-2013
Re: 21304001-1   Date of Report: 04-17-2013

MoldSCORE™: Spore Trap Report

Location: 21304001-1TM12

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/ m3	MoldSCORE‡			Score
	<100	1K	10K	>100K			100	200	300	
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					1	13				103
Total						**13**	**Final MoldSCORE**			**103**

Location: 21304001-1TM13

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/ m3	MoldSCORE‡			Score
	<100	1K	10K	>100K			100	200	300	
Generally able to grow indoors*										
Alternaria					1	13				105
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					2	27				105
Total						**40**	**Final MoldSCORE**			**110**

880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21304001-1

Date of Sampling: 04-15-2013
Date of Receipt: 04-16-2013
Date of Report: 04-17-2013

MoldSCORE™: Spore Trap Report

Location: 21304001-1TM14

Fungi Identified	Indoor sample spores/m3 <100 / 1K / 10K / >100K				Raw count	Spores/ m3	MoldSCORE‡ 100 / 200 / 300	Score
Generally able to grow indoors*								
Alternaria					ND	< 13		100
Bipolaris/Drechslera group					ND	< 13		100
Chaetomium					ND	< 13		100
Cladosporium					ND	< 13		100
Curvularia					ND	< 13		100
Nigrospora					ND	< 13		100
Penicillium/Aspergillus types†					ND	< 13		100
Stachybotrys					ND	< 13		100
Torula					ND	< 13		100
Seldom found growing indoors**								
Ascospores					ND	< 13		100
Basidiospores					ND	< 13		100
Rusts					ND	< 13		100
Smuts, Periconia, Myxomycetes					ND	< 13		100
Total						**N/A**	**Final MoldSCORE**	**100**

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

EMLab P&K
A TestAmerica Company

Report for:

Mr. Kenny Hsi, Mr. Larry Sandhu
Hygiene Technologies International, Inc.
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21304001-1
                    EML ID: 1056488

Approved by: Dates of Analysis:
                                                  Spore trap analysis: 04-30-2013

Lab Manager
Malcolm Moody

Service SOPs: Spore trap analysis (1038 (previously I100000 and I100007))
AIHA-LAP, LLC accredited service, Lab ID #179768

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21304001-1

Date of Sampling: 04-29-2013
Date of Receipt: 04-30-2013
Date of Report: 04-30-2013

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21304001-1 TM15OUT		21304001-1 TM16		21304001-1 TM17	
Comments (see below)	None		None		None	
Lab ID-Version‡:	4752563-1		4752564-1		4752565-1	
Analysis Date:	04/30/2013		04/30/2013		04/30/2013	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	3	40				
Ascospores	1	53				
Basidiospores	6	320				
Botrytis						
Chaetomium	7	93				
Cladosporium	31	1,700	2	110		
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora	2	27				
Other colorless						
Penicillium/Aspergillus types†	5	270	1	53		
Pithomyces						
Rusts	2	27				
Smuts, Periconia, Myxomycetes	80	1,100	2	27		
Stachybotrys						
Stemphylium						
Torula	4	53				
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	3+		1+		1+	
Hyphal fragments/m3	67		< 13		< 13	
Pollen/m3	350		27		< 13	
Skin cells (1-4+)	< 1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		3,600		190		< 13

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium, Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.   Date of Sampling: 04-29-2013
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu   Date of Receipt: 04-30-2013
Re: 21304001-1   Date of Report: 04-30-2013

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21304001-1 TM18		21304001-1 TM19		21304001-1 TM20	
Comments (see below)	None		None		None	
Lab ID-Version‡:	4752566-1		4752567-1		4752568-1	
Analysis Date:	04/30/2013		04/30/2013		04/30/2013	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores						
Basidiospores						
Botrytis						
Chaetomium						
Cladosporium						
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes					1	13
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	1+		1+		2+	
Hyphal fragments/m3	< 13		< 13		< 13	
Pollen/m3	13		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		< 13		< 13		13

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium, Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.　　Date of Sampling: 04-29-2013
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu　　Date of Receipt: 04-30-2013
Re: 21304001-1　　Date of Report: 04-30-2013

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 21304001-1 TM15OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: April in California (n‡=16784)†						Typical Outdoor Data for: The entire year in California (n‡=188141)†					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	40	13	13	27	60	93	55	13	13	27	67	110	54
Bipolaris/Drechslera group	-	7	13	13	27	40	9	7	13	13	27	40	12
Chaetomium	93	8	13	13	27	40	18	8	13	13	27	47	19
Cladosporium	1,700	110	160	430	1,100	1,900	96	110	210	630	1,700	2,800	97
Curvularia	-	7	8	13	13	27	2	7	13	13	27	53	6
Nigrospora	27	7	10	13	13	27	4	7	13	13	27	53	8
Penicillium/Aspergillus types	270	53	53	160	430	690	79	53	100	210	590	1,000	85
Stachybotrys	-	7	13	13	33	67	5	7	13	13	33	67	4
Torula	53	11	13	13	40	67	14	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	53	27	53	110	370	690	75	25	53	110	360	690	71
Basidiospores	320	53	80	270	960	2,000	93	53	80	270	1,000	2,400	93
Rusts	27	13	13	25	53	93	35	13	13	13	53	80	27
Smuts, Periconia, Myxomycetes	1,100	13	13	40	110	200	67	13	13	40	110	200	68
§ TOTAL SPORES/m3	3,600												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21304001-1

Date of Sampling: 04-29-2013
Date of Receipt: 04-30-2013
Date of Report: 04-30-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21304001-1 TM15OUT:

Species detected	Outdoor sample spores/m3		Typical outdoor ranges (North America)				Freq. %
	<100 1K 10K >100K						
Alternaria		40	7 -	33	- 570		46
Ascospores		53	13 -	200	- 5,500		76
Basidiospores		320	13 -	430	- 23,000		92
Chaetomium		93	7 -	13	- 160		10
Cladosporium		1,700	27 -	480	- 10,000		91
Nigrospora		27	7 -	13	- 230		16
Penicillium/Aspergillus types		270	13 -	170	- 2,700		69
Rusts		27	7 -	20	- 350		20
Smuts, Periconia, Myxomycetes		1,100	7 -	50	- 970		64
Torula		53	7 -	13	- 170		9
Total		**3,600**					

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 21304001-1 TM16

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 5%	dF: 4 Result: 6.4000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.4615	dF: 10 Result: 0.7636 Critical value: 0.5515 Outside Similar: Yes	Score: 106 Result: Low

Species Detected	Spores/m3	
	<100 1K 10K >100K	
Cladosporium		110
Penicillium/Aspergillus types		53
Smuts, Periconia, Myxomycetes		27
Total		**190**

Client: Hygiene Technologies International, Inc. Date of Sampling: 04-29-2013
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu Date of Receipt: 04-30-2013
Re: 21304001-1 Date of Report: 04-30-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21304001-1 TM17

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 6.4000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected	**Spores/m3**			
	<100 1K 10K >100K			
None Detected	< 13			

Location: 21304001-1 TM18

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 6.4000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected	**Spores/m3**			
	<100 1K 10K >100K			
None Detected	< 13			

Location: 21304001-1 TM19

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 6.4000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected	**Spores/m3**			
	<100 1K 10K >100K			
None Detected	< 13			

Client: Hygiene Technologies International, Inc.   Date of Sampling: 04-29-2013
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu   Date of Receipt: 04-30-2013
Re: 21304001-1   Date of Report: 04-30-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21304001-1 TM20

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 6.4000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.1818	dF: 10 Result: 0.5818 Critical value: 0.5515 Outside Similar: Yes	Score: 102 Result: Low

Species Detected	Spores/m3			
	<100 1K 10K >100K			
Smuts, Periconia, Myxomycetes				13
Total				13

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

Client: Hygiene Technologies International, Inc. Date of Sampling: 04-29-2013
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu Date of Receipt: 04-30-2013
Re: 21304001-1 Date of Report: 04-30-2013

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21304001-1 TM15OUT

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		3	40
Bipolaris/Drechslera group		ND	< 13
Chaetomium		7	93
Cladosporium		31	1,700
Curvularia		ND	< 13
Nigrospora		2	27
Penicillium/Aspergillus types†		5	270
Stachybotrys		ND	< 13
Torula		4	53
Seldom found growing indoors**			
Ascospores		1	53
Basidiospores		6	320
Rusts		2	27
Smuts, Periconia, Myxomycetes		80	1,100
Total			**3,600**

Location: 21304001-1 TM16

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300 Score	
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		2	110		101
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		1	53		106
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		2	27		100
Total			**187**	**Final MoldSCORE**	**106**

Client: Hygiene Technologies International, Inc.   Date of Sampling: 04-29-2013
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu   Date of Receipt: 04-30-2013
Re: 21304001-1   Date of Report: 04-30-2013

MoldSCORE™: Spore Trap Report

Location: 21304001-1 TM17

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/ m3	MoldSCORE‡			Score
	<100	1K	10K	>100K			100	200	300	
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
Total						**N/A**	**Final MoldSCORE**			**100**

Location: 21304001-1 TM18

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/ m3	MoldSCORE‡			Score
	<100	1K	10K	>100K			100	200	300	
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
Total						**N/A**	**Final MoldSCORE**			**100**

Client: Hygiene Technologies International, Inc.   Date of Sampling: 04-29-2013
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu   Date of Receipt: 04-30-2013
Re: 21304001-1   Date of Report: 04-30-2013

MoldSCORE™: Spore Trap Report

Location: 21304001-1 TM19

Fungi Identified	Indoor sample spores/m3 <100	1K	10K	>100K	Raw count	Spores/ m3	MoldSCORE‡ 100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
Total						**N/A**	**Final MoldSCORE**			**100**

Location: 21304001-1 TM20

Fungi Identified	Indoor sample spores/m3 <100	1K	10K	>100K	Raw count	Spores/ m3	MoldSCORE‡ 100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					1	13				102
Total						**13**	**Final MoldSCORE**			**102**

Client: Hygiene Technologies International, Inc.   Date of Sampling: 04-29-2013
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu   Date of Receipt: 04-30-2013
Re: 21304001-1   Date of Report: 04-30-2013

MoldSCORE™: Spore Trap Report

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

EMLab P&K
A TestAmerica Company

Report for:

Mr. Larry Sandhu
Hygiene Technologies International, Inc.
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21304001-1
                  EML ID: 1056716

Approved by:

Lab Manager
Malcolm Moody

Dates of Analysis:
Spore trap analysis: 04-30-2013

Service SOPs: Spore trap analysis (1038 (previously I100000 and I100007))
AIHA-LAP, LLC accredited service, Lab ID #179768

EMLab P&K, LLC

Client: Hygiene Technologies International, Inc. Date of Sampling: 04-30-2013
C/O: Mr. Larry Sandhu Date of Receipt: 04-30-2013
Re: 21304001-1 Date of Report: 04-30-2013

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21304001-1 TM21OUT		21304001-1 TM22		21304001-1 TM23	
Comments (see below)	None		None		None	
Lab ID-Version‡:	4753308-1		4753309-1		4753310-1	
Analysis Date:	04/30/2013		04/30/2013		04/30/2013	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	2	27	1	13		
Ascospores						
Basidiospores	5	270				
Bipolaris/Drechslera group						
Botrytis						
Chaetomium	3	40	1	13		
Cladosporium	9	480				
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora	2	27				
Other colorless						
Penicillium/Aspergillus types†	1	53				
Pithomyces						
Rusts	1	13				
Smuts, Periconia, Myxomycetes	215	2,900	2	27	5	67
Stachybotrys	1	13				
Stemphylium						
Torula	9	120				
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	3+		2+		2+	
Hyphal fragments/m3	280		< 13		13	
Pollen/m3	110		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		3,900		53		67

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium, Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc. Date of Sampling: 04-30-2013
C/O: Mr. Larry Sandhu Date of Receipt: 04-30-2013
Re: 21304001-1 Date of Report: 04-30-2013

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21304001-1 TM24		21304001-1 TM25		21304001-1 TM26	
Comments (see below)	None		None		None	
Lab ID-Version‡:	4753311-1		4753312-1		4753313-1	
Analysis Date:	04/30/2013		04/30/2013		04/30/2013	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	1	13				
Ascospores						
Basidiospores	1	53			1	53
Bipolaris/Drechslera group						
Botrytis						
Chaetomium			1	13		
Cladosporium						
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes			2	27	3	40
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		1+		2+	
Hyphal fragments/m3	27		< 13		27	
Pollen/m3	40		40		< 13	
Skin cells (1-4+)	1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		67		40		93

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium, Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.   Date of Sampling: 04-30-2013
C/O: Mr. Larry Sandhu   Date of Receipt: 04-30-2013
Re: 21304001-1   Date of Report: 04-30-2013

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 21304001-1 TM21OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: April in California (n‡=16784)†						Typical Outdoor Data for: The entire year in California (n‡=188141)†					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	27	13	13	27	60	93	55	13	13	27	67	110	54
Bipolaris/Drechslera group	-	7	13	13	27	40	9	7	13	13	27	40	12
Chaetomium	40	8	13	13	27	40	18	8	13	13	27	47	19
Cladosporium	480	110	160	430	1,100	1,900	96	110	210	630	1,700	2,800	97
Curvularia	-	7	8	13	13	27	2	7	13	13	27	53	6
Nigrospora	27	7	10	13	13	27	4	7	13	13	27	53	8
Penicillium/Aspergillus types	53	53	53	160	430	690	79	53	100	210	590	1,000	85
Stachybotrys	13	7	13	13	33	67	5	7	13	13	33	67	4
Torula	120	11	13	13	40	67	14	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	-	27	53	110	370	690	75	25	53	110	360	690	71
Basidiospores	270	53	80	270	960	2,000	93	53	80	270	1,000	2,400	93
Rusts	13	13	13	25	53	93	35	13	13	13	53	80	27
Smuts, Periconia, Myxomycetes	2,900	13	13	40	110	200	67	13	13	40	110	200	68
§ TOTAL SPORES/m3	3,900												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

Client: Hygiene Technologies International, Inc.
C/O: Mr. Larry Sandhu
Re: 21304001-1

Date of Sampling: 04-30-2013
Date of Receipt: 04-30-2013
Date of Report: 04-30-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21304001-1 TM21OUT:

Species detected	Outdoor sample spores/m3		Typical outdoor ranges (North America)			Freq. %
	<100 1K 10K >100K					
Alternaria		27	7 -	33	- 570	46
Ascospores		< 13	13 -	200	- 5,500	76
Basidiospores		270	13 -	430	- 23,000	92
Chaetomium		40	7 -	13	- 160	10
Cladosporium		480	27 -	480	- 10,000	91
Nigrospora		27	7 -	13	- 230	16
Penicillium/Aspergillus types		53	13 -	170	- 2,700	69
Rusts		13	7 -	20	- 350	20
Smuts, Periconia, Myxomycetes		2,900	7 -	50	- 970	64
Stachybotrys		13	7 -	13	- 530	3
Torula		120	7 -	13	- 170	9
Total		3,900				

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 21304001-1 TM22

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 4 Result: 0.4500 Critical value: 9.4877 Inside Similar: Yes	Result: 0.4615	dF: 10 Result: 0.3697 Critical value: 0.5515 Outside Similar: No	Score: 119 Result: Low

Species Detected	Spores/m3	
	<100 1K 10K >100K	
Alternaria		13
Chaetomium		13
Smuts, Periconia, Myxomycetes		27
Total		53

Client: Hygiene Technologies International, Inc.   Date of Sampling: 04-30-2013
C/O: Mr. Larry Sandhu   Date of Receipt: 04-30-2013
Re: 21304001-1   Date of Report: 04-30-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21304001-1 TM23

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 4 Result: 0.4500 Critical value: 9.4877 Inside Similar: Yes	Result: 0.1818	dF: 10 Result: 0.6424 Critical value: 0.5515 Outside Similar: Yes	Score: 104 Result: Low

Species Detected	Spores/m3			
	<100	1K	10K	>100K
Smuts, Periconia, Myxomycetes				67
Total				67

Location: 21304001-1 TM24

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 4 Result: 0.4500 Critical value: 9.4877 Inside Similar: Yes	Result: 0.3333	dF: 10 Result: 0.3182 Critical value: 0.5515 Outside Similar: No	Score: 105 Result: Low

Species Detected	Spores/m3			
	<100	1K	10K	>100K
Alternaria				13
Basidiospores				53
Total				67

Location: 21304001-1 TM25

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 4 Result: 0.4500 Critical value: 9.4877 Inside Similar: Yes	Result: 0.3333	dF: 10 Result: 0.5333 Critical value: 0.5515 Outside Similar: No	Score: 121 Result: Low

Species Detected	Spores/m3			
	<100	1K	10K	>100K
Chaetomium				13
Smuts, Periconia, Myxomycetes				27
Total				40

Client: Hygiene Technologies International, Inc.   Date of Sampling: 04-30-2013
C/O: Mr. Larry Sandhu   Date of Receipt: 04-30-2013
Re: 21304001-1   Date of Report: 04-30-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21304001-1 TM26

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 4 Result: 0.4500 Critical value: 9.4877 Inside Similar: Yes	Result: 0.3333	dF: 10 Result: 0.6727 Critical value: 0.5515 Outside Similar: Yes	Score: 105 Result: Low

Species Detected	Spores/m3			
	<100	1K	10K	>100K
Basidiospores				53
Smuts, Periconia, Myxomycetes				40
Total				93

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

Client: Hygiene Technologies International, Inc. Date of Sampling: 04-30-2013
C/O: Mr. Larry Sandhu Date of Receipt: 04-30-2013
Re: 21304001-1 Date of Report: 04-30-2013

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21304001-1 TM21OUT

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		2	27
Bipolaris/Drechslera group		ND	< 13
Chaetomium		3	40
Cladosporium		9	480
Curvularia		ND	< 13
Nigrospora		2	27
Penicillium/Aspergillus types†		1	53
Stachybotrys		1	13
Torula		9	120
Seldom found growing indoors**			
Ascospores		ND	< 13
Basidiospores		5	270
Rusts		1	13
Smuts, Periconia, Myxomycetes		215	2,900
Total			**3,907**

Location: 21304001-1 TM22

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		1	13		105
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		1	13		119
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		2	27		100
Total			**53**	**Final MoldSCORE**	**119**

Client: Hygiene Technologies International, Inc. Date of Sampling: 04-30-2013
C/O: Mr. Larry Sandhu Date of Receipt: 04-30-2013
Re: 21304001-1 Date of Report: 04-30-2013

MoldSCORE™: Spore Trap Report

Location: 21304001-1 TM23

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/ m3	MoldSCORE‡			Score
	<100	1K	10K	>100K			100	200	300	
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					5	67				103
Total						**67**	**Final MoldSCORE**			**103**

Location: 21304001-1 TM24

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/ m3	MoldSCORE‡			Score
	<100	1K	10K	>100K			100	200	300	
Generally able to grow indoors*										
Alternaria					1	13				105
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					1	53				105
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
Total						**67**	**Final MoldSCORE**			**105**

Client: Hygiene Technologies International, Inc.
C/O: Mr. Larry Sandhu
Re: 21304001-1

Date of Sampling: 04-30-2013
Date of Receipt: 04-30-2013
Date of Report: 04-30-2013

MoldSCORE™: Spore Trap Report

Location: 21304001-1 TM25

Fungi Identified	Indoor sample spores/m3 (<100 1K 10K >100K)	Raw count	Spores/m3	MoldSCORE‡ (100 200 300)	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		1	13		121
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		2	27		100
Total			**40**	**Final MoldSCORE**	**121**

Location: 21304001-1 TM26

Fungi Identified	Indoor sample spores/m3 (<100 1K 10K >100K)	Raw count	Spores/m3	MoldSCORE‡ (100 200 300)	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		105
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		3	40		100
Total			**93**	**Final MoldSCORE**	**105**

Client: Hygiene Technologies International, Inc.   Date of Sampling: 04-30-2013
C/O: Mr. Larry Sandhu   Date of Receipt: 04-30-2013
Re: 21304001-1   Date of Report: 04-30-2013

MoldSCORE™: Spore Trap Report

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

Request For Analysis

Project Number/Purchase Order: 21304001-1			Date Submitted: 4/9/13
Project Contact: Lt Sandhu / K. Hsi			Turnaround Required: Normal
Lab Destination: EM LAB			Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21304001-1 TM01 out	75L	Air-o-Cell	Spore Trap Analysis
21304001-1 TM02	75L	Air-o-Cell	
21304001-1 TM03	75L	Air-o-Cell	
21304001-1 TM04	75L	Air-o-Cell	
21304001-1 TM05	75L	Air-o-Cell	
21304001-1 TM06	75L	Air-o-Cell	
21304001-1 TM07	75L	Air-o-Cell	

Special Instructions: I. Hota Random sampling (Round-1)

1. Sampled by: Sandhu on 4/8/13 @ 15:14   Received by: ZW 4/9/13 @ 1445
2. Relinquished by: Sandhu on 4/9/13 @ 12:00   Received by:
3. Relinquished by: _____   Received by: _____

Please include signature, date, and time

Lab Use Only:

HYGIENE

Hygiene Technologies International, Inc.

Request For Analysis

Project Number/Purchase Order: __2130400l-1__   Date Submitted: __4/15/13__

Project Contact: __L. Sandhu / K-h Si__   Turnaround Required: __Normal__

Lab Destination: __12 M LAB__   Lab Contact: __SAMPLE RECEIVING__

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
2130400l-1 TM0804	75L	Air-o-Cell	Spore Trap Analysis
2130400l-1 TM09	75L	Air-o-Cell	
2130400l-1 TM10	75L	Air-o-Cell	
2130400l-1 TM11	75L	Air-o-Cell	
2130400l-1 TM12	75L	Air-o-Cell	
2130400l-1 TM13	75L	Air-o-Cell	
2130400l-1 TM14	75L	Air-o-Cell	

Special Instructions: __Random Sampling (R-2)__

1. Sampled by: __Sandhu__ on __4/15/13__ @13:58 Received by: _____ 4/16/13 @ 1230
2. Relinquished by: __Sandhu__ on __4/15/13__ @18:00 Received by: _____
3. Relinquished by: _____ Received by: _____

Please include signature, date, and time

Lab Use Only:

HYGIENE TECH

Hygiene Technologies International, Inc.

Torrance, California 90503-1643
(310) 370-8370
(310) 370-2474 FAX
www.hygienetech.com

Request For Analysis

Project Number/~~Purchase Order~~: 21304001-1   Date Submitted: 4/29/13

Project Contact: L. Sandhu/C.Hsi   Turnaround Required: Normal

Lab Destination: EMLAB   Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21304001-1 TM15out	75 L	Air-o-cell	Spore Trap Analysis
21304001-1 TM16	75 L		
21304001-1 TM17	75 L		
21304001-1 TM18	75 L		
21304001-1 TM19	75 L		
21304001-1 TM20	75 L		

Special Instructions: ~~Note~~ Random Sampling

1. Sampled by: Sandhu on 4/29/13 @ 14:21   Received by:
2. Relinquished by: Sandhu on 4/29/13 @ 19:22   Received by: Melissa Tracey 4/30/13 8AM
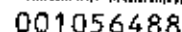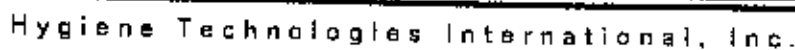3. Relinquished by: _____   Received by: _____

Please include signature, date, and time

Lab Use Only:

Los Angeles • San Francisco • Sacramento • Fresno • Bakersfield • Ontario • San Diego
Seattle • Chicago • Cleveland • New Orleans • Norfolk • New York
Brussels • Vienna • Abuja • Mumbai • Beijing

HYGIENE

Hygiene Technologies International, Inc.

001056716

Request For Analysis

Project Number/Purchase Order: __21304001-1__   Date Submitted: __4/30/13__

Project Contact: __L. Sandhu / K.h Si__   Turnaround Required: __Normal__

Lab Destination: __EMLAB__   Lab Contact: __Sample Receiving__

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21304001-1 TM21out	75L	Air-o-cell	Spore Trap Analysis
21304001-1 TM22	75L		
21304001-1 TM23	75L		
21304001-1 TM24	75L		
21304001-1 TM25	75L		
21304001-1 TM26	75L		

Special Instructions: __Random Sampling (R-4)__

1. Sampled by: __Sandhu__ on __4/30/13__ @ __9:20__   Received by: ____
2. Relinquished by: __Sandhu__ on __4/30/13__ @ __11:30__   Received by: __Melissa Tuoey__ 4/30/13
3. Relinquished by: ____   Received by: ____   1150

Please include signature, date, and time

Lab Use Only: